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Set	Items	Description
S1	1089	(VEHICLE? OR AUTO OR AUTOS OR CAR OR CARS OR AUTOMOTIVE? OR AUTOMOBILE?)(5N)(DATABASE? OR DB OR DATA()BASE?)
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S3	75	(S1 OR S2)(5N)(ORDER? OR PURCHAS? OR BUYING OR TRACK? OR LOCATE OR LOCATES OR LOCATING OR REQUEST?)
S4	158958	(MATCH? OR COMPARE? OR COMPARIS? OR SELECT? OR CHOOS? OR SPECIF? OR IDENTIF? OR ASSESS?)(3N)(MAKE OR MAKES OR MODEL OR MODELS OR DEALER OR DEALERS OR PRICE OR PRICES OR COLOR OR COLORS)
S5	23733	IN() (PRODUCTION? OR TRANSIT OR INVENTORY OR INVENTORIES)
S6	134	(TAG OR TAGS OR TAGGING OR TAGGED)(5N)(REQUEST? OR MESSAGE?)
S7	1353	FORD()MOTOR()COMPANY?
S8	7423	AU=(SMITH, S? OR SMITH S?)
S9	1	S3 AND S4
S10	0	S3 AND (S5 OR S6)
S11	11	(S1 OR S2) AND (S5 OR S6)
S12	11	S11 NOT S9
S13	11	RD (unique items)
S14	35	S3 AND (INTERNET OR ONLINE OR ON()LINE OR AUTOMATE? OR ELECTRONIC?)
S15	35	S14 NOT (S9 OR S13)
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S17	32	RD (unique items)
S18	0	S7 AND S3
S19	0	S8 AND S3

9/5/1 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01502190 ORDER NO: AAD96-25701

KNOWLEDGE BASE FOR INITIAL ORDER QUANTITIES (DATA BASE , INVENTORY)

Author: LENTZ, GORDON J.

Degree: PH.D.

Year: 1996

Corporate Source/Institution: ILLINOIS INSTITUTE OF TECHNOLOGY (0091)

Adviser: NICK T. THOMOPOULOS

Source: VOLUME 57/05-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 2123. 111 PAGES

Descriptors: BUSINESS ADMINISTRATION, MANAGEMENT ; OPERATIONS RESEARCH

Descriptor Codes: 0454; 0796

Historically the process for stocking levels of introductory spare parts has been imprecise. Stocking levels have been based on preliminary testing, calculations of life spans, or educated guesses. No historical part demand data are usually available until the part has been in service for several months. This is a difficult situation for manufacturers as understocked service parts leads to idle equipment, lost production, and dissatisfied customers. On the other hand, overstocking hinders a manufacturers competitive position with additional inventory expense.

This thesis proposes a methodology to build a data base to predict an introductory part's initial order quantity. The objective is to predict an introductory service part's initial order quantity knowing the cost of the part.

Two models are developed in this thesis using knowledge a service part's manufacturer possesses on introductory parts. The first model, the Naive Model, is based upon previous year's introductory part demand. The second model, the Cost Model, is based on a relationship between previous year's introductory part demand and the service part cost. Examples of the models and the data base creation were demonstrated using the same data.

Comparison and evaluation of the two models was made using an annual inventory cost and the annual cost coefficient of variation for a part identified by its cost. The annual inventory cost was composed of ordering cost, holding cost, safety stock cost, and backorder cost.

Results from the examples showed significant improvement in the coefficient of variation of the annual inventory cost of the Cost Model compared to the Naive Model . As expected, additional information improves the data base.

13/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

5965444 INSPEC Abstract Number: B9808-7930-067, C9808-7150-020

Title: Use of commercial products for configuration management of military networks

Author(s): Fonzo, A.G.; Bradley, M.K.; Garhart, J.S.

Author Affiliation: Prog. Executive Office, US Army Commun.-Electronics Command, Fort Monmouth, NJ, USA

Conference Title: MILCOM 97. MILCOM 97 Proceedings (Cat. No.97CH36134)
Part vol.3 p.1351-5 vol.3

Publisher: IEEE, New York, NY, USA

Publication Date: 1997 Country of Publication: USA 3 vol. xli+1613 pp.

ISBN: 0 7803 4249 6 Material Identity Number: XX97-03163

U.S. Copyright Clearance Center Code: 0 7803 4249 6/97/\$10.00

Conference Title: MILCOM 97 MILCOM 97 Proceedings

Conference Sponsor: IEEE; IEEE Commun. Soc.; AFCEA (Armed Forces Commun. & Electron. Assoc.)

Conference Date: 2-5 Nov. 1997 Conference Location: Monterey, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: There is a need for an automated architecture engineering tool to support advanced communication networking efforts. Agencies, such as the US Army's Communications-Electronics Command (CECOM) and Program Executive Office Command, Control, and Communications Systems (PEO-C3S) have the requirement for a suite of applications to provide detailed diagramming, definition and analysis. Many COTS and GOTS products are available to perform some of the tasks required in analyzing, designing, developing, and implementing a network. Many tools which are graphically oriented for use in designing a network, do not provide the capability of automated analysis. While many other network analysis tools are not graphical or user-friendly, they lack the ability to store relevant "user" data. Some of the information to populate the network architectures exists in **inventory databases** but the data is not easily accessible and does not contain all the information required. (0 Refs)

Subfile: B C

Descriptors: configuration management; graphical user interfaces; military communication; military computing; software tools; telecommunication computing; telecommunication network management

Identifiers: commercial products; configuration management; military networks; automated architecture engineering tool; US Army; Communications-Electronics Command; CECOM; Program Executive Office; definition; network analysis tools; COTS products; GOTS products; network design; graphically oriented tools; automated network analysis; network architectures; **inventory databases**; graphical network diagramming tool; relational database; PEO-C3S

Class Codes: B7930 (Military communications); B6210C (Network management); C7150 (Military computing); C6110B (Software engineering techniques); C7410F (Communications computing); C6180G (Graphical user interfaces); C6115 (Programming support)

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13/5/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03265587 INSPEC Abstract Number: C89001295

Title: Methodologie Generale d'Automatisation pour les Industries

Manufacturieres: Convention Automatique Productique (General Methods of Automation in the Manufacturing Industries: Automatic Production Conference)

Publisher: GIIPRA, Paris, France

Publication Date: Dec. 1985 Country of Publication: France xii+227 pp.

Conference Date: 2-4 Dec. 1985 Conference Location: Paris, France

Language: French Document Type: Conference Proceedings (CP)

Treatment: Practical (P)

Abstract: The following topics were dealt with: diagnostics in **production** automation; choice of methods and of materials; production methods; flexible turning cells; a bulk product transport vehicle factory; automated system analysis and design by computer, including modelling; DNC realisation methods; foundry modernisation; man-machine communication; heterogeneous coupling of systems; alimentary fluid automation; TGAO; iron processing management; technological data structures for design; flexible transport system specification; simulation to aid in system exploitation; surface treatment workshop; management applications of AI; safety and performance; reliability; a **database** of real-time applications; **car** production steel works automation; automatic programming; and consequences for training. Abstracts of individual papers can be found under the relevant classification codes in this or other issues.

Subfile: C

Descriptors: manufacturing computer control

Identifiers: computer-aided analysis; CAA; CAD; digital simulation; computerised modelling; diagnostics; production automation; materials; flexible turning cells; bulk product transport vehicle factory; DNC realisation; foundry modernisation; man-machine communication; heterogeneous coupling; alimentary fluid automation; TGAO; iron processing management; technological data structures; flexible transport system specification; surface treatment workshop; AI; safety; performance; reliability; database; real-time applications; car production steel works automation; automatic programming; training

Class Codes: C3355 (Manufacturing processes); C7420 (Control engineering)

13/5/3 (Item 3 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03086666 INSPEC Abstract Number: C88020022

Title: A microcomputer inventory system for the small business

Author(s): Edwards, W.F.

Author Affiliation: Dept. of Econ. & Finance, Murray State Univ., KY, USA

Journal: Journal of Systems Management vol.38, no.10 p.18-23

Publication Date: Oct. 1987 Country of Publication: USA

CODEN: JSYMA9 ISSN: 0022-4839

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: This article describes a simple, inexpensive inventory system for the small business. The system is currently operational in two of the authors' stores and has proved very effective in reducing work capital tied up in **inventory**. It is also flexible and can be easily altered to meet changing needs. Furthermore, the system can be run as frequently as desired to approximate a perpetual system. The system is an application of the popular dBase software, and revolves around three **database** files; a master **inventory** file (MIF); a sales file (SF); and a new inventory file.

(0 Refs)

Subfile: C

Descriptors: microcomputer applications; stock control data processing
Identifiers: business DP; relational databases; stock control DP;
microcomputer inventory system; dBase; database files; master inventory
file; sales file; new inventory file
Class Codes: C7180 (Retailing and distribution)

13/5/4 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online
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01912071 ORDER NO: AADAA-IC809661

System wspomagania decyzji w gospodarce magazynowej w sferze dystrybucji
Original Title: Decision support system in inventory control

Author: Chodak, Grzegorz
Degree: Ph.D.
Year: 2002
Corporate Source/Institution: Politechnika Wroclawska (Poland) (5999)
Source: VOLUME 63/04-C OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 652. 205 PAGES
Descriptors: BUSINESS ADMINISTRATION, MANAGEMENT ; ENGINEERING,
INDUSTRIAL
Descriptor Codes: 0454; 0546
Language: Polish

The main purpose of this dissertation is to propose new methods of **inventory databases** analysis applying multicriteria analysis, artificial intelligence techniques and simulation and use it in implemented decision support system in **inventory** control. To provide an extensive analysis, the dissertation systematises knowledge concerning computer **inventory** control systems (**databases** structure, comparison methodology). The analysis of computer inventory control systems focuses on small and middle-sized firms exclusively.

The thesis consists of four parts. First chapter contains detailed analysis of inventory control software. Next chapter discusses the main aspects of decision analysis and decision support systems. The third chapter presents the proposed implemented decision support system in **inventory** control as well as the proposed methods of data analysis. Fourth part of thesis contains presentation of the main technical aspects of implemented decision support system in **inventory** control.

13/5/5 (Item 2 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online
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01673345 ORDER NO: AAD99-08921

APPROXIMATION ALGORITHMS FOR SCHEDULING PROBLEMS (RESPONSE TIME)

Author: BHATIA, RANDEEP SINGH
Degree: PH.D.
Year: 1998
Corporate Source/Institution: UNIVERSITY OF MARYLAND COLLEGE PARK (0117)
Chairperson: SAMIR KHULLER
Source: VOLUME 59/10-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 5434. 178 PAGES
Descriptors: COMPUTER SCIENCE ; OPERATIONS RESEARCH
Descriptor Codes: 0984; 0796

Scheduling problems arise in diverse areas such as manufacturing,

compiler design, **databases**, information dispersal, **inventory** management etc. Designing efficient solutions for these problems is critical for effective resource utilization and good system performance. Unfortunately, most of these optimization problems are NP-hard, and no polynomial time algorithms are known to find the optimal solutions. Heuristics that trade quality for tractability are therefore promising tools for coping with these problems.

My dissertation research is on the design of approximation algorithms for scheduling problems arising in many different contexts. In all these problems the cost of scheduling the activities is minimized when certain activities are scheduled "close" to each other. This may be because these activities overlap in the work needed to accomplish them and by scheduling them together we are able to minimize the total work incurred for the schedule. Some of these scheduling problems have application to minimizing the mean response time of clients in a client-server application that uses broadcast as a means of information dispersal, machining metal parts on a numerically controlled machining center, design of code optimization compilers for multiprocessor architecture, multi-item stock replenishment in **inventory** management etc.

This dissertation employs many novel mathematical tools and techniques to analyze the complexity of these scheduling problems and to design efficient as well as practical heuristics for effectively solving them. The concepts of "universal sequences", "golden ratio sequences" etc. are demonstrated to yield elegant yet simple approximation algorithms which in many cases are significantly better than the previously known approximation algorithms. These tools and techniques may be of independent interest due to their underlying mathematical sophistication and due to their potential applicability to many other problems.

13/5/6 (Item 3 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online
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01239043 ORDER NO: AAD92-29406

AGGREGATION EFFECTS IN PRODUCTION SMOOTHING AND OTHER LINEAR QUADRATIC INVENTORY MODELS

Author: SCHUH, SCOTT DAVID

Degree: PH.D.

Year: 1992

Corporate Source/Institution: THE JOHNS HOPKINS UNIVERSITY (0098)

Source: VOLUME 53/05-A OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 1602. 220 PAGES

Descriptors: ECONOMICS, GENERAL

Descriptor Codes: 0501

This dissertation reports the results of an investigation of the effects of aggregation on econometric estimates of macroeconomic **inventory** models. A new microeconomic **data base** developed by the U.S. Bureau of the Census, called the M3 data base, is used to measure the effects of aggregation on macroeconomic inventory models and to determine whether aggregation is responsible for the overwhelmingly unsupportive econometric results using aggregate data. Various tests of the production smoothing-buffer stock model and other linear quadratic models of finished goods **inventories** are conducted with the M3 **data base** at the firm level. The extent of bias in these tests due to aggregation, as well as seasonal adjustment and survey sampling techniques, is quantified using traditional aggregation bias techniques.

Four main conclusions stand out. First, there is ample evidence of broad heterogeneity across firms so the necessary condition for aggregation bias is fulfilled. Second, there is strong evidence that aggregation: (1)

biases the production variance-to-sales variance ratio downward for firms that have ratios greater than one (i.e., production bunching firms); and (2) biases inventory adjustment speed parameter estimates downward. Third, econometric estimates of the inventory models at the firm level generally share the same difficulties as models estimated at the aggregate level. The econometric results suggest that the model generally does not match the firm level data much better than the aggregate data. Fourth, estimates of the structural version of the model using the generalized method of moments techniques are highly unstable, being extremely sensitive to the specification of parametric normalization, instrument set, lags and other items.

Taken together, these four conclusions suggest that future inventory research should abandon the linear quadratic inventory model paradigm. Attention should be given to models that will account for the types of heterogeneity and aggregation biases found in this dissertation. These new models may contain two new characteristics. First, they may adopt alternative functional forms, including nonconvexities and discontinuities. Second, they may include other inventory types and more explicit characterizations of production processes and production and inventory costs.

13/5/7 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
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2377428 H.W. WILSON RECORD NUMBER: BAST01071884

Assessing the uncertainty associated with national greenhouse gas emission inventories: a case study for Austria

Winiwarter, Wilfried; Rypdal, Kristin

Atmospheric Environment (Oxford, England) v. 35 no32 (Nov. 2001) p. 5425-40

DOCUMENT TYPE: Feature Article ISSN: 1352-2310 LANGUAGE: English

RECORD STATUS: New record

ABSTRACT: The uncertainty associated with the Austrian Greenhouse Gas emission inventory has been determined for the gases CO₂, CH₄ and N₂O and for the overall greenhouse potential. Expert interviews were conducted to obtain uncertainties in inventory input data. Based on these interviews, error distributions were developed and combined using Monte-Carlo analysis. Results for all sources and gases combined indicate an overall uncertainty between 10.5% and 12% depending on the base year considered. Excluding emissions and the uncertainty associated with forest sinks and natural sources, overall uncertainty decreased by 2% points. The mere 'random error', which is considered the level of uncertainty to be achieved with the current methodology (excluding all systematic errors) is 5% points lower. Detailed evaluation shows that much of the overall uncertainty derives from a lack of understanding the processes associated with N₂O emissions from soils. Other important contributors to GHG emission uncertainties are CH₄ from landfills and forests as CO₂ sinks. The uncertainty of the trend has been determined at near 5% points, with solid waste production (landfills) having the strongest contribution. Theoretical considerations do not permit a decrease of the trend uncertainty-even when forest sinks are not considered-below 3% points. Copyright (c) 2001 Elsevier Science Ltd.

DESCRIPTORS: Greenhouse gases; Air pollution--Austria; Error analysis (Mathematics)--Monte Carlo method;

13/5/8 (Item 2 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1920410 H.W. WILSON RECORD NUMBER: BAST97041201

Industry dislikes model toxics law

Johnson, Jeff;

Chemical & Engineering News v. 75 (June 30 1997) p. 26-9

DOCUMENT TYPE: Feature Article ISSN: 0009-2347 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: A forthcoming legislative battle in Massachusetts over a unique chemical-use reporting law may foretell a significant shift in the national debate regarding the application of this controversial approach to pollution prevention. Led by a statewide chemical industry trade association, many Massachusetts industries are preparing for a big push to do away with the state law, the Toxics Use Reduction Act (TURA), which requires companies to publicly report toxic chemicals used in production and to develop plans every two years to assist in the reduction of their use. These industries want to replace the law with one that would provide tax breaks and other economic incentives for companies that decrease hazardous wastes but would abolish chemical-use reporting and pollution prevention planning requirements. However, the existing law has a lot of supporters, both among the public, who fought for its passage in the late 1980s, and industrialists, who claim that its requirements have resulted in better product, cheaper production, and less waste. The proposal to replace TURA comes as the federal Environmental Protection Agency considers gathering chemical-use data along with other information collected annually for the Toxics Release Inventory.

DESCRIPTORS: Business--Reports to government; Toxics Release Inventory database ; Environmental law--Massachusetts;

13/5/9 (Item 3 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1920259 H.W. WILSON RECORD NUMBER: BAST95073213

EPA toxic use reporting plan hits strong industry opposition

Johnson, Jeff;

Environmental Science & Technology v. 29 (Dec. 1995) p. 540A-541A

DOCUMENT TYPE: Feature Article ISSN: 0013-936X LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: The Environmental Protection Agency (EPA) intends to expand the annual Toxics Release Inventory to include self-reporting of a company's use of toxic chemicals in production. The EPA believes that this information is crucial in aiding companies to detect areas in manufacturing where the use of toxic materials can be reduced. Although the proposal is supported by representatives of community groups and labor unions, chemical manufacturers and users oppose the plan, which they consider to be an unwarranted intrusion into their operations. A report outlining a strategy for gathering chemical-use information is planned for January 1996.

DESCRIPTORS: Business--Reports to government; Toxics Release Inventory database ; Chemical industry--Environmental aspects;

13/5/10 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00604333 00EW06-102

TS.Census gets goods on Windows systems

Sturdevant, Cameron

eWeek , June 12, 2000 , v17 n24 p79, 94, 2 Page(s)

ISSN: 0740-1604

Company Name: Tally Systems

URL: <http://www.tallysystems.com>

Product Name: TS.Census

Languages: English

Document Type: Software Review

Grade (of Product Reviewed): B

Geographic Location: United States

Presents a favorable review of TS.Census (\$17), an inventory utility program from Tally Systems Corp. of Lebanon, NH (603). Runs on IBM PC Compatibles with Windows. Explains that it replaces Tally Systems' NetCensus workgroup inventory tool. Cites features such as client/server architecture that enables enterprise use, recognition files that offer high-level accuracy in inventory collection, comprehensive database, and bundled Crystal Reports software from Seagate Software Inc. Mentions, however, that agents sending data can overload network bandwidth and it does not support Linux, Macintosh, or Unix operating systems. Concludes that it is suitable for enterprises that use only PCs based on Windows, DOS, and OS/2. On a scale ranging from F to A, received an A in capability, Bs in usability and performance, Cs in interoperability and manageability. Includes a product summary. (MEM)

Descriptors: Inventory; Utility Program; Management; Enterprise Computing; Client-Server Computing; Hardware; Software

Identifiers: TS.Census; Tally Systems

13/5/11 (Item 2 from file: 233)

DIALOG(R) File 233:Internet & Personal Comp. Abs.

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00522837 99CR01-310

NetBuy signs Ingram Micro

Campbell, Scott

Computer Reseller News , January 25, 1999 , n826 p56, 1 Page(s)

ISSN: 0893-8377

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Reports that NetBuy of Santa Clara, CA, has added Ingram Micro Inc. of Santa Ana, CA, to its database of available products. Remarks that NetBuy has found a niche fulfilling small orders that distributors find to costly to process. Says that NetBuy now has \$1.5 billion in inventory, with databases of more than 53 electronics and components distributors on its Web site, and that Ingram Micro is its first full-line computer distributor. Explains that NetBuy's proprietary system searches distributors' inventor for requested products and transmits the order electronic distributor, who ships the products. Warns that searches do not compare distributors for the lowest price. Mentions that Ingram Micro is seeking partnerships with online resellers. Includes one sidebar. (amg)

Descriptors: Corporate Alliances; Electronic Commerce; Distribution; Inventory; Corporate Information

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17/5/1 (Item 1 from file: 256)
DIALOG(R)File 256:TecInfoSource
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00150660 DOCUMENT TYPE: Review

PRODUCT NAMES: SYSPRO e.net (207616)

TITLE: Miniature Maker Sees Big Picture--Thanks to a Little ERP
AUTHOR: Goodrich, Stan
SOURCE: Supply Chain Systems Magazine, v23 n9 p32(3) Oct 2003
ISSN: 0892-676X
HOMEPAGE: <http://www.scs-mag.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

SYSPRO e.net from SYSPRO automates the processing of Internet orders for Woodland Scenics, a manufacturer of realistic model railroad scenery. To reduce costs of manually entering order information, Woodland purchases e.net, which uses the Microsoft .NET framework and Component Object Model (COM) objects. These business objects and a simple, XML-based interface help simplify the integration and translation of third-party data. Using these elements, documents can be processed uninhibited by structure or format. SYSPRO e.net takes Woodland orders from their Web site and automatically places them in a database, doing custom pricing and customer profiling at the same time. It prints the order and updates the inventory database. Orders are taken 24/7. SYSPRO e.net coordinates with an in-house inventory application to better control inventory. The in-house application uses the COM objects to reconcile inventory and retrieve order and customer events as they occur. Further integration between Woodland applications and SYSPRO e.net will implement barcode scanning at the warehouse level and just-in-time manufacturing.

COMPANY NAME: SYSPRO Impact Software Inc (612898)
SPECIAL FEATURE: Charts
DESCRIPTORS: .NET; Inventory; Manufacturing; Order Fulfillment; Web Services; XML
REVISION DATE: 20040330

17/5/2 (Item 2 from file: 256)
DIALOG(R)File 256:TecInfoSource
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00134073 DOCUMENT TYPE: Review

PRODUCT NAMES: GeoMedia (692662)

TITLE: Asset Management: Sign, Sign, Everywhere a Sign
AUTHOR: Marsters, Robert Wagner, Mary Jo
SOURCE: GeoSpatial Solutions, v11 n9 p34(4) Sep 2001
ISSN: 1529-7403
HOMEPAGE: <http://www.geospatial-online.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

The PennDOT (Pennsylvania Department of Transportation) used Intergraph's GeoMedia for its SIMOS program, which implemented an efficient process for repairing and replacing over 1.1 million roadway signs throughout the state. The system combines spatial data management with a GIS, and also takes advantage of the mobility inherent in portable field data units and a distributed network. The system provides access to a full signage **inventory database**, and also integrates work **order** management functions to streamline maintenance. PennDOT is responsible for all signs throughout the state, and the department has a central office and 11 engineering districts, each of which operates autonomously. Logistically, this autonomy was problematic, because each district stored its sign data in different formats. All districts, however, followed a manual process for inspecting, maintaining, ordering, and inventorying signs. The potential for human error was great until a GIS was implemented, along with other software to **automate** procedures. The group designed SIMOS to improve productivity and utilize GIS in the area of sign management.

COMPANY NAME: Intergraph Corp (253979)
SPECIAL FEATURE: Output Samples
DESCRIPTORS: Equipment Maintenance; GIS; Government; Signs; Transportation
REVISION DATE: 20030330

17/5/3 (Item 3 from file: 256)
DIALOG(R) File 256:TecInfoSource
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00133503 DOCUMENT TYPE: Review

PRODUCT NAMES: BuilderDepot (074209)

TITLE: A Place for Builders to Come
AUTHOR: Riggs, Larry Oser, Kris
SOURCE: DIRECT, v13 n9 p51(2) Jul 2001
ISSN: 1046-4174
HOMEPAGE: <http://www.directmag.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

According to founder Zak Zakhariya, BuilderDepot will provide contractors with convenient, one-stop shopping services. It also will allow manufacturers to list multiple products at no charge. The **online** business-to-business (B2B) marketplace will not carry **inventory** but will link to manufacturers' **databases**. **Orders** will be processed by BuilderDepot, with commission fees ranging from 5 percent to 15 percent. Fees only are applied to sales. Additionally, BuilderDepot provides manufacturers with real-time sales reports. The marketplace will launch in late 2001 and will offer about 20,000 products initially. BuilderDepot will offer contractors staggered deliveries. Its Bill of Materials One Click feature also will allow contractors to create customized order templates, speeding data entry. Zakhariya, a former custom-house builder, believes that convenience and access to a wide range of construction materials will drive interest in the marketplace.

COMPANY NAME: BuilderDepot Inc (714712)
DESCRIPTORS: B2B Marketplaces; Building Materials; Construction;
Contractors; E-Commerce
REVISION DATE: 20020130

17/5/4 (Item 4 from file: 256)
DIALOG(R)File 256:TecInfoSource
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00126408 DOCUMENT TYPE: Review

PRODUCT NAMES: B2B Marketplaces (842338)

TITLE: E-Marketplaces: Opportunity or Threat?
AUTHOR: Sara, Elizabeth
SOURCE: e-Business Advisor Magazine, v18 n7 p32(4) Jul 2000
ISSN: 1098-8912
HOMEPAGE: <http://www.advisor.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

E-marketplaces use XML to allow companies to link **inventory** , **ordering** , **procurement**, and shipping **databases** via the **Internet** without requiring code rewrites or database modifications. Although some sellers are put off by the apparent risks of e-marketplaces, the e-hubs have some advantages, including access to new business partners, reduction of excess inventory, increased revenues, and automation of manual processes. However, companies might want to put off choosing an e-marketplace until a market leader emerges. Products should first be determined to be suitable for the e-marketplace selling model. Analysts are forecasting an e-marketplace consolidation, so a circumspect approach to e-marketplace adoption is recommended. Some companies that deploy their own Web-based sales channels may hold back on e-marketplace participation because they fear falling prices or lessening of competitive edge. A manufacturer can see an e-marketplace as a way to increase product distribution to more buyers. For instance, a business may be able to reach a new market segment or geographic sector otherwise unavailable to it. Business-to-business (B2B) models defined include sell-side extranets, e-marketplaces (B2B portals or trading exchanges), and e-procurement (or buy-side network).

COMPANY NAME: Vendor Independent (999999)
SPECIAL FEATURE: Charts
DESCRIPTORS: B2B Marketplaces; E-Commerce; E-Purchasing; Supply Chain Management; XML
REVISION DATE: 20010430

17/5/5 (Item 5 from file: 256)
DIALOG(R)File 256:TecInfoSource
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00121709 DOCUMENT TYPE: Review

PRODUCT NAMES: Palm OS 3 (608751); Oracle Lite (496065); Oracle 8i (004233)

TITLE: Handhelds Link to Inventory Database: Oracle Lite facilitates inve...
AUTHOR: Hamblen, Matt
SOURCE: Computerworld, v34 n6 p64(1) Feb 7, 2000
ISSN: 0010-4841
HOMEPAGE: <http://www.computerworld.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

Chicago's United Center Arena uses 3Com's Palm OS 3 and Oracle's Oracle Lite and Oracle 8i to track inventory and sales. Should Microsoft Windows CE be required on handhelds, Oracle Lite will be compatible on supporting devices. With the Oracle-based handheld system, sports merchandise vendors operating at the arena can be sure that they do not run short of anything, since handhelds use barcode readers capable of checking merchandise into a warehouse and recording each sale made by a vendor. The back-end Oracle 8i database tracks inventory and will soon link over an extranet to enable automated ordering of required merchandise. Oracle Lite, a 50KB client/server package, is stored on 50 SPT 1700 handhelds running the Palm III OS and fitted with barcode readers. Oracle Lite is a thin-client database for Java and was an excellent choice for the United Center since the arena has run the Oracle 8i server for three years and is experienced with Oracle's products and services. According to the technical director for the United Center, the Oracle Lite architecture supports reconciliation and synchronization with the database server to provide unusually powerful support for the mobile market. With the Oracle/handheld solution, monthly inventory in the warehouse requires the efforts of two or three clerks for a few hours, a process that formerly required three days. The center is also updating the system with a Web application server that will automatically forward inventory purchase orders to suppliers via the Internet.

COMPANY NAME: PalmSource Inc (714401); Oracle Corp (010740)
SPECIAL FEATURE: Charts
DESCRIPTORS: AutoID; Barcoding; Handhelds & Palmtops; Inventory; Mobile Computing; Oracle; Palm; Palm OS; Sales Force Automation; Sports; Thin Clients
REVISION DATE: 20030430

17/5/6 (Item 6 from file: 256)
DIALOG(R) File 256:TecInfoSource
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00115213 DOCUMENT TYPE: Review

PRODUCT NAMES: E-Commerce (836109)

TITLE: How to Select an E-com Strategy for Your Business
AUTHOR: Null, Christopher
SOURCE: MicroTimes, v189 p61(3) Feb 3, 1999
HOMEPAGE: <http://www.microtimes.com>

RECORD TYPE: Review
REVIEW TYPE: Product Analysis
GRADE: Product Analysis, No Rating

The pros and cons of hosted and in-house e-commerce sites are compared. Outsourcing versus in-house hosting and maintenance is 'the most critical decision company faces' in e-commerce. Do-it-yourself storefronts at hosted sites are becoming more popular, with Yahoo! Store 4.1, Open Market ShopSite, Virtual Spin Internet Store 4.5, Rocketfuel Buildashop 7.0, and iCat Commerce Online 1.0 gaining market share and providing various levels of service and support. These companies provide the basic Web design kits, some of which can be modified by users; the order processing

capabilities; and the actual Web site hosting. Use of these services is surprisingly affordable, ranging from small, free services, to basic \$100-per-month fees, and up from there depending on the complexity of the site. The alternative to hosted sites is in-house design and hosting, which is far more expensive and complex, but may be essential for larger businesses in **order** to incorporate accounting, **inventory**, and **database** information. In-house e-commerce is a serious commitment, however, and can cost \$150,000 the first year to get up and running. Application packages such as IBM's Net.Commerce PRO are also expensive and dauntingly complex. Security is probably the most important criterion when deciding on e-commerce, whether hosted or in-house.

COMPANY NAME: Vendor Independent (999999)
SPECIAL FEATURE: Charts
DESCRIPTORS: E-Commerce; Front Ends; **Internet** Marketing; Retailers
REVISION DATE: 20010530

17/5/7 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6375977 INSPEC Abstract Number: C1999-11-7165-024
Title: Preparing AM/FM databases to support vehicle tracking
Author(s): Elliott, B.
Author Affiliation: Baker GeoRes. Inc., Bethesda, MD, USA
Conference Title: Proceedings. Conference. Seize the Advantage through Geospatial Information Technologies p.454-8
Publisher: Geospatial Inf. & Technol. Assoc, Aurora, CO, USA
Publication Date: 1999 Country of Publication: USA xvi+719 pp.
Material Identity Number: XX-1999-00767
Conference Title: Proceedings of Gita Conference XXII
Conference Date: 25-28 April 1999 Conference Location: Charlotte, NC, USA
Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: The ability to track utility vehicles using GPS or other location technologies, and to display each vehicle's location on an AM/FM map display in real-time has opened up new opportunities for automation of work management processes. In applications such as field maintenance, trouble calls, emergency response, customer service and managing a mobile workforce, real-time **tracking of vehicles** integrated with AM/FM spatial **databases** offers key competitive advantages to the utility enterprise. This paper discusses the technical issues and implementation approaches for integrating utility vehicle tracking-based applications with AM/FM systems. Should vehicle tracking and AM/FM be integrated? Will the technology provide the benefits envisioned? Where does vehicle-tracking rank on the priority of user applications? What have been the bottlenecks to implementation? What technical and organizational issues need to be overcome? What is the payback in terms of cost benefit to the organization? These questions are addressed in this paper. (0 Refs)
Subfile: C
Descriptors: **automated** highways; Global Positioning System; public utilities; real-time systems; road vehicles; tracking; visual databases
Identifiers: AM/FM spatial database preparation; GPS; location technologies; vehicle location display; AM/FM map display; work management process automation; field maintenance; trouble calls; emergency response; customer service; mobile workforce management; real-time utility vehicle tracking; utility enterprise; cost benefit analysis
Class Codes: C7165 (Public utility administration); C6160S (Spatial and pictorial databases); C7445 (Traffic engineering computing)

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17/5/8 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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5979389 INSPEC Abstract Number: C9809-6110P-007

Title: Out of the sandbox: third-party validation for Java applications

Author(s): Jermyn, I.; Monroe, F.; Wyckoff, P.

Author Affiliation: Dept. of Comput. Sci., New York Univ., NY, USA

Conference Title: International Society for Computers and Their Applications. 13th International Conference on Computers and Their Applications p.436-9

Publisher: Int. Soc. Comput. & Their Appl.-ISCA, Cary, NC, USA

Publication Date: 1998 Country of Publication: USA ix+443 pp.

ISBN: 1 880843 23 4 Material Identity Number: XX98-01111

Conference Title: Proceedings of ISCA CATA-98: Thirteenth International Conference on Computers and Their Applications

Conference Sponsor: Int. Soc. Comput. & their Applications

Conference Date: 25-27 March 1998 Conference Location: Honolulu, HI, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: Java's security allows a user to import and run applets from the WWW without undue risk to the user's machine by restricting the applet's actions to a "sandbox", an area of the Web browser dedicated to that applet. The sandbox model is critical to Java's success and its promise of truly network-oriented computing. Applications running in the sandbox can only access local and network resources through a limited number of trusted mechanisms. This model gives users the advantage of easy distribution of software while protecting them from potentially malicious applications, but can be too restrictive at times. To address the need to extend the flexibility of the "all-or-nothing" approach, the concept of object signing was introduced to the Java model. Access to resources outside the sandbox is granted based on a user-defined policy consisting of a list of code signers and the type of access each signer is allowed. While this policy works well for restricting access to "trusted" code from a well-known signer, non-malicious, entertaining or educational code from individual programmers or small businesses is cast out, unless privileges for each signed authority are incorporated into the user's access matrix. We propose that the privileges required by code from unknown sources be verified and signed by a single trusted third party and present an infrastructure to facilitate this proposal. We then describe a parallel application built on top of the Charlotte parallel processing system and an **order inventory database** application as exemplars of this approach.

(7 Refs)

Subfile: C

Descriptors: **Internet** ; object-oriented programming; parallel programming; security of data; stock control data processing

Identifiers: third-party validation; Java applications; security; applets ; WWW; sandbox; Web browser; network-oriented computing; object signing; resource access; user-defined policy; code signers; access matrix; trusted third party; parallel application; Charlotte parallel processing system; **order inventory database** application

Class Codes: C6110P (Parallel programming); C6130S (Data security); C6110J (Object-oriented programming); C6150N (Distributed systems software) ; C7160 (Manufacturing and industrial administration)

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17/5/9 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC
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5455327 INSPEC Abstract Number: C9702-7165-018

Title: Data conversion: a success story
Author(s): Bradley, G.
Author Affiliation: South Carolina Electr. & Gas Co., Columbia, SC, USA
Conference Title: Proceedings Conference XIX AM/FM International.
Thriving in an Age of Competition p.597-603
Publisher: AM/FM Int, Aurora, CO, USA
Publication Date: 1996 Country of Publication: USA xv+696 pp.
Material Identity Number: XX96-00515
Conference Title: Proceedings of Conference XIX. Thriving in an Age of Competition
Conference Date: 24-27 March 1996 Conference Location: Seattle, WA, USA

Language: English Document Type: Conference Paper (PA)
Treatment: Applications (A); General, Review (G)
Abstract: South Carolina Electric and Gas (SCE&G) and Cartotech Incorporated joined together to provide data conversion services for the SCE&G electric distribution facilities. SCE&G was developing a GIS in the retail electric strategic business unit for the purpose of tracking distribution equipment and performing circuit analysis and optimization. The conversion was completed in June 1995. This paper will discuss the critical steps required to achieve successful conversion from the utility's viewpoint, including **inventory** of the existing source documents, **database** design documentation, data conversion specifications, **request** for proposals and partnership agreements with conversion vendors. This paper will also address the conversion contractor's challenging elements of the project, including the conversion of multiple legacy sources, dual platforms to develop and support multiscale annotation output products, conversion by circuit versus database tiles, landbase ramifications and schedule constraints. (0 Refs)

Subfile: C
Descriptors: electricity supply industry; **electronic** data interchange; geographic information systems; project management
Identifiers: data conversion; South Carolina Electric and Gas; Cartotech Incorporated; electric distribution facilities; GIS; inventory; database design; request for proposals; partnership agreements; multiscale annotation output products; landbase ramifications; schedule constraints
Class Codes: C7165 (Public utility administration); C6130E (Data interchange); C7840 (Geography and cartography computing)
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17/5/10 (Item 4 from file: 2)
DIALOG(R)File 2:INSPEC
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5374591 INSPEC Abstract Number: C9610-7445-250

Title: Automated processing of highway inventory collections and of highway surface condition assessments
Author(s): Crozier, D.S.; Fletcher, E.J.; Michel, M.Z.; Johnston, G.; Turnpenny, D.R.
Author Affiliation: Sch. of Eng., Sunderland Univ., UK
Conference Title: Proceedings of the Thirteenth IASTED International Conference, Modelling, Identification and Control p.305-9
Editor(s): Hamza, M.H.
Publisher: IASTED, Anaheim, CA, USA
Publication Date: 1994 Country of Publication: USA 470 pp.

ISBN: 0 88986 183 8 Material Identity Number: XX95-01470
Conference Title: Proceedings of IASTED Symposium Modelling,
Identification and Control
Conference Sponsor: IASTED
Conference Date: 21-23 Feb. 1994 Conference Location: Grindelwald,
Switzerland

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Experimental (X)

Abstract: **Automated** data collection of highway surface condition and highway inventory is now being developed for the urban environment. Urban survey vehicles must capture, analyse and store large amounts of data suitable for use by a variety of end-users. Two techniques are described which have been shown to be useful in speeding up the road surface analysis and the post survey processing. The former is based on analysing the road generated vibration of the survey vehicle and produces a "quality of ride" number grading for accurately position referenced sections of carriageway. The latter, a hierarchical object based data structure is used to rapidly **locate inventory** items when editing the main **database** . (3 Refs)

Subfile: C

Descriptors: computer vision; data acquisition; data structures; road traffic; road vehicles; traffic engineering computing; vibrations

Identifiers: highway inventory collections; highway surface condition assessments; **automated** data collection; road surface analysis; road generated vibration; hierarchical object based data structure

Class Codes: C7445 (Traffic engineering computing); C3210G (Data acquisition systems for control); C6130 (Data handling techniques); C5260B (Computer vision and image processing techniques); C3360B (Road-traffic system control)

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17/5/11 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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4823401 INSPEC Abstract Number: B9412-0170N-032, C9412-7410D-200

Title: CSTAR database for advanced test systems

Author(s): Hunter, C.S.; Southard, R.B.

Author Affiliation: IBM Corp., Hopewell Junction, NY, USA

p.166-8

Publisher: IEEE, New York, NY, USA

Publication Date: 1993 Country of Publication: USA xvii+1166 pp.

ISBN: 0 7803 0794 1

U.S. Copyright Clearance Center Code: 0569-5503/93/0000-0166\$3.00

Conference Title: Proceedings of IEEE 43rd Electronic Components and Technology Conference (ECTC '93)

Conference Date: 1-4 June 1993 Conference Location: Orlando, FL, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Theoretical (T)

Abstract: The CSTAR (cards status **tracking** recording) **database tracks inventory** redesign/failure history of the field replaceable units (cards and components) that make up the VLSI device advanced test systems (ATS) that have been designed and manufactured at IBM, East Fishkill. CSTAR obsoletes the process of logging hardware failures in a notebook where inventory and failure-to-repair actions can not be easily identified. CSTAR provides an automatic serial number generator facility for new card tracking, status histories of all cards, SQL reports for analyzing failure histories for the most frequently used repair process, engineering change summaries per card, and a comprehensive user's guide (**on - line** and hard copy.) CSTAR runs in a distributed environment with LANs providing the link to a centralized database enabling all information to be immediately available to all authorized users in the laboratory and manufacturing test areas. Since repair attempts now have a consistent approach, second and third shift problem take over is accelerated and simplified, and hardware maintenance programs are forecasted, there is enhanced equipment reliability by reduced unplanned maintenance and quicker turn around time. (1 Refs)

Subfile: B C

Descriptors: circuit reliability; **electronic** engineering computing; failure analysis; integrated circuit testing; VLSI

Identifiers: CSTAR database; advanced test systems; cards status tracking recording; inventory redesign; failure history; field replaceable units; VLSI device advanced test systems; IBM; East Fishkill; logging hardware failures; failure-to-repair actions; automatic serial number generator facility; card tracking; status histories; SQL; failure histories; repair process; user's guide; **on - line** ; hard copy; distributed environment; LANs

Class Codes: B0170N (Reliability); B0170E (Production facilities and engineering); B2570 (Semiconductor integrated circuits); C7410D (Electronic engineering)

17/5/12 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03941863 INSPEC Abstract Number: C91051760

Title: Innovation through information technology: shaping the future at Canada Wire

Author(s): Hanson, C.E.

Author Affiliation: Canada Wire & Cable Ltd., Don Mills, Ont., Canada

Journal: Canadian Journal of Electrical and Computer Engineering vol.16, no.2 p.44-6

Publication Date: April 1991 Country of Publication: Canada

CODEN: CJEEEL

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A)

Abstract: Canada Wire has invested heavily in the area of information technology and is now applying this to multi-million dollar, computer-controlled dry-cure and full triple-extrusion equipment. Information technology, process control and processing equipment are now established within Canada Wire's manufacturing plants. The system for monitoring and controlling the manufacturing processes is called CAMICS. The CWIC LINK system links Canada Wire to its key customers giving online access to **databases** containing information such as **inventory** status and restocking dates, **order** status, product catalogues and account status. (0 Refs)

Subfile: C

Descriptors: information services; manufacturing data processing; metallurgical industries; process computer control

Identifiers: wire and cable industry; computer-controlled dry-cure equipment; monitoring system; information technology; Canada Wire; full triple-extrusion equipment; process control; processing equipment; CAMICS; CWIC LINK system; **online** access; inventory status; restocking dates; order status; product catalogues; account status

Class Codes: C3350C (Metallurgical industries); C7420 (Control engineering); C7160 (Manufacturing and industry); C7210 (Information services and centres)

17/5/13 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

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03731150 INSPEC Abstract Number: C90066811

Title: The TM\$ track management system

Author(s): Hide, H.; Jang, K.; Nykoluk, M.; Choi, E.

Author Affiliation: Cole, Sherman & Associates, Toronto, Ont., Canada

Conference Title: Computer Applications in Railway Planning and Management. Proceedings of the Second International Conference on Computer Aided Design, Manufacture and Operation in the Railway and Other Advanced Mass Transit Systems p.199-206

Editor(s): Murthy, T.K.S.; Rivier, R.E.; List, G.F.; Mikolaj, J.

Publisher: Comput. Mech. Publications, Southampton, UK

Publication Date: 1990 Country of Publication: UK 284 pp.

ISBN: 1 85312 058 8

Conference Date: 27-29 March 1990 Conference Location: Rome, Italy

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The track management system (TM\$) has been designed to increase effective access to track performance data, to forecast the effects of deterioration and maintenance activity, and to formulate cost-effective maintenance programs. Data interfaces and manipulation programs allow **electronic** transfer of condition data from **track** geometry recording **cars** and other data from corporate **databases**. **Track** condition indices can be displayed in color graphic form to speed review of large sections of track or to permit detailed analysis of track problems on a mile-by-mile basis. Forecasts are based on statistical models of track deterioration and maintenance effectiveness, and are used by the cost and economic evaluation models to develop coordinated surface, rail, and tie maintenance programs for periods up to five years. The surface maintenance system is currently being implemented on the Burlington Northern Railroad (BN) and further detailed development of rail and tie maintenance systems is continuing. (0 Refs)

Subfile: C

Descriptors: decision support systems; maintenance engineering;

microcomputer applications; railways

Identifiers: rail maintenance; **electronic** data transfer; forecasting; track management system; TM\$; manipulation programs; track geometry recording cars; statistical models; track deterioration; surface maintenance system; Burlington Northern Railroad; BN; tie maintenance

Class Codes: C7490 (Other engineering fields); C7185 (Other service industries); C7102 (Decision support systems)

17/5/14 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

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03475684 INSPEC Abstract Number: C89063085, D89002502

Title: More profit in basics through automated replenishment

Author(s): Smith, D.C.

Journal: Retail Control vol.57, no.4 p.31-45

Publication Date: April 1989 Country of Publication: USA

CODEN: RETCAC ISSN: 0034-6047

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A)

Abstract: An **automated** basic stock system should have two major objectives. First, it should take the mathematical drudgery out of the job, allowing more refined calculations or orders versus doing it by hand. Second, it should give buyers appropriate exception reporting designed to help them better understand customers' reaction the merchandise in their assortments. The author describes how Maison Blanche installed a version of the PARIS (Planning Aid for Retail Information Systems) retail **database** including software for **purchase** and **inventory** reporting. (0 Refs)

Subfile: C D

Descriptors: management information systems; retail data processing; stock control data processing

Identifiers: orders calculations; sales reporting; profit; **automated** replenishment; **automated** basic stock system; exception reporting; Maison Blanche; PARIS; Planning Aid for Retail Information Systems; retail database; software; purchase; inventory reporting

Class Codes: C7180 (Retailing and distribution); D2140 (Marketing, retailing and distribution)

17/5/15 (Item 9 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03145723 INSPEC Abstract Number: B88035017, D88001718

Title: Electronic data interchange

Author(s): Hurwitz, J.S.

Journal: Patricia Seybold's Office Computing Report vol.11, no.3 p. 1-13

Publication Date: March 1988 Country of Publication: USA

ISSN: 0887-3062

Language: English Document Type: Journal Paper (JP)

Treatment: General, Review (G)

Abstract: **Electronic** data interchange (EDI)-the ability of an application in one company to exchange data directly with an application in another company-is the new frontier of **electronic** mail. Once communications protocols have been established, more companies will use EDI to communicate with their customers in real time. Customers will be able to peer into **online inventory databases** of their suppliers before **ordering**. At the same time, graphics and image will have a place in EDI

and other mail applications. Users of these services will see full-motion videos of products and services in action to help them make decisions. It will become commonplace for vendors to use these **electronic** hooks to get immediate feedback from customers. (0 Refs)

Subfile: B D

Descriptors: data communication systems; **electronic** mail

Identifiers: **electronic** data interchange; company; **electronic** mail; communications protocols; EDI; customers; **online** inventory databases; suppliers; graphics; image; vendors

Class Codes: B6210G (Electronic mail); D4020 (Electronic mail)

17/5/16 (Item 10 from file: 2)

DIALOG(R)File 2:INSPEC

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02287854 INSPEC Abstract Number: C84035661

Title: The NCI Drug Information System-an overview

Author(s): Miller, J.A.; Tobin, F.L.; Milne, G.W.A.

Conference Title: National Online Meeting Proceedings - 1984 p.217-25

Publisher: Learned Information, Medford, NJ, USA

Publication Date: 1984 Country of Publication: USA x+484 pp.

ISBN: 0 938734 07 5

Conference Sponsor: Online Rev

Conference Date: 10-12 April 1984 Conference Location: New York, NY, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The National Cancer Institute (NCI) Drug Information System (DIS) is a large, computerized system designed to support all aspects of the Developmental Therapeutics Program (DTP). The system is comprised of a series of integrated **databases** containing chemical properties, physical **inventory** and **order** information, shipping history information, and biological testing information for each of the nearly 400000 chemicals tested for anticancer activity to date under the DTP. All DIS databases may be interactively searched in an **online** environment. The DIS operates primarily on a DECsystem-10 computer, although a large-scale IBM system is also used to support some database preparation and updating activities. Many different types of terminals are supported, including several specific types of graphics terminals used for the input and/or display of chemical structure information. The system also includes a novel use of bar-code readers/printers as well as digital balances in support of inventory/shipping operations. (6 Refs)

Subfile: C

Descriptors: medical administrative data processing

Identifiers: NCI Drug Information System; National Cancer Institute; integrated databases; chemical properties; physical inventory; order information; shipping history information; biological testing information; **online** environment; DECsystem-10 computer; large-scale IBM system; graphics terminals; chemical structure information; bar-code readers; printers

Class Codes: C7140 (Medical administration)

17/5/17 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

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00884217 INSPEC Abstract Number: C76008817

Title: Order entry/ inventory /shipment system and data base

Author(s): Tsushima, J.; Kawamoto, A.; Masai, Y.; Kashiwazaki, S.

Journal: Hitachi Review vol.24, no.9 p.388

Publication Date: Sept. 1975 Country of Publication: Japan

CODEN: HITAAQ ISSN: 0018-277X

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A)

Abstract: Abstract only given, substantially as follows: After introducing the HITACHI Computer System Kansai Paint Co. Ltd. completed an on - line processing system. Recently, the paint manufacturer planned an on - line system for production control, for which the conventional processing formula proved inadequate because of the needs for close coordination between the two systems, complication of the data structure, and increase in processing volume. To overcome the difficulty, the company introduced the Hitachi-developed Adaptable Data Manager (ADM) capable of three functions of data base (DB), data communication (DC) and system administration (SA), thus meeting the specific needs. The new order entry system has been in operation since January 1975. (0 Refs)

Subfile: C

Descriptors: distributive administrative data processing

Identifiers: order entry/inventory/shipment system; data base; adaptable data manager

Class Codes: C7160 (Manufacturing and industry)

17/5/18 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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1008913 ORDER NO: AAD87-16426

THE DEVELOPMENT OF AN ADMINISTRATIVE COMPUTER SYSTEM MODEL FOR TWO YEAR COMMUNITY COLLEGES

Author: DOLL, J. THOMAS

Degree: ED.D

Year: 1987

Corporate Source/Institution: TEMPLE UNIVERSITY (0225)

Source: VOLUME 48/07-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1598. 241 PAGES

Descriptors: EDUCATION, ADMINISTRATION; EDUCATION, COMMUNITY COLLEGE

Descriptor Codes: 0514; 0275

The purpose of the study was to develop an administrative computer system model that could be used in two year community colleges. The model showed the extent that the computer could be used in these colleges and presented a functional computer system rather than a theoretical system. The model was based on systems which were implemented as of 1987. The model includes the following administrative functions of a two year community college: (1) Payroll/Personnel, (2) Budgeting, (3) Accounts Payable, (4) Inventory, (5) Purchasing, (6) Admission, (7) Registration and Record, (8) Counseling, (9) Financial Aid and (10) Testing.

The study was limited to selected schools from the eighteen New Jersey community colleges who were utilizing the computer for administrative functions during 1986-87. The study used two methods for collecting data. They were a mailed questionnaire and an interview. The questionnaire was sent to the data center directors of each of the eighteen Community Colleges and asked the director to identify which applications their school has implemented. An interview was conducted with the appropriate data processing personnel to collect technical data. Evaluation was performed on the data collected from the interviews at each community college.

The following conclusions were presented: (1) the accounting functions were the less developed and lowest in priorities for development; (2) the student services systems were the most developed; (3) the trend was to move

the payroll function to an outside service; (4) minimum support was to the purchasing and inventory control; (5) the computer hardware and software was state of the art; (6) most of the systems studied were **online** systems; (7) colleges were just starting to utilize office automation and (8) Data Base Management Systems were available in all the colleges studied.

The following recommendations were presented: (1) the first priority should be an integrated Student Data Base; (2) the second priority should be an integrated Financial **Data Base**; (3) **Inventory , Purchasing ,** Student Testing and Counseling systems are to be given more attention; (4) the community college should utilize distributed processing and (5) there should be more leadership and coordination of community college information systems development. (Abstract shortened with permission of author.)

17/5/19 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00558040 00WQ01-003

Toward successful e-fulfillment -- It's all in the SKU

Mesrobian, Edmond; Ringer, Brian

Web Techniques , January 1, 2000 , v5 n1 p57-65, 7 Page(s)

ISSN: 1086-556X

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Presents an overview of the fulfillment process involved in e-retailing, focusing on how the authors' firm, CheckOut.com, is solving related logistics and data-management problems. Says that the large amount of content information (CI) currently available on e-retailing sites must be fused with product information (PI) to produce an integrated browsing and shopping experience. Cites the lack of standards for representing and transferring CI and PI. Explains that the concept of a virtual product is required to provide a layer of abstraction between the product as represented on the site, and the stock-keeping units (SKUs) of individual fulfillers. Attention is given to the order pipeline, maintaining inventory status, the delivery method, computing order totals, approving credit card purchases, and capturing and transmitting orders. Includes four code fragments, two screen displays, one chart, one diagram, and a list of URLs. (jon)

Descriptors: **Electronic Shopping; Shipping/Receiving; Data Base Management; Sales; Electronic Commerce; Purchasing ; Inventory**

17/5/20 (Item 2 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00550055 99NC10-105

Riding the next XML wave

Hudgins-Bonafield, Christy

Network Computing , October 18, 1999 , v10 n21 p47, 1 Page(s)

ISSN: 1046-4468

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

BUSINESS TO BUSINESS column predicts that **automated** servers based on extensible markup language (XML) will be the next big network infrastructure change, a transition that stands to define who will succeed

in business-to-business commerce models. Says the real potential for XML lies in taking services and mixing and matching them across B2B networks, such as recognizing a given XML pricing/ **inventory request** , calling for specific **database** lookups, setting the process in motion, and routing a customized and custom-formatted response. Forecasts that ultimately the best architectures will make it possible to modify business applications in a single location and govern authentication and corporate data rights. Concludes that change will happen sooner than most and notes that it is imperative that businesses begin explore to meld applications and directories with XML. (pe)

Descriptors: XML; Electronic Commerce; Networks; Database; Business

17/5/21 (Item 3 from file: 233)

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00540318 99NM07-003

The right way to set up shop -- Why buy the Web shop when you can get the e-commerce for free? Here are some hosting and setup options to get you started

Strom, David

NewMedia , July 1, 1999 , v9 n7 p49-55, 7 Page(s)

ISSN: 1060-7188

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Reports that today's innovations in Web site construction, payment processing, hosting options, and advertising and commission strategies have changed the rules of the game for **online** shops. Adds that they are far more complex, with dynamically generated custom pages linked to **database** catalogs tied into **inventory** and **ordering** functions. States that users can now choose from a number of different options, ranging from renting a ready-made storefront to obtaining site-hosting services from their **Internet** service provider (ISP). Discusses several of these options, including renting a storefront, picking the right ISP, picking software, and outsourcing payment processing. Includes a list of e-commerce hosting providers (p52), e-commerce suites (p53), and a la carte software programs (p54). Concludes that the secret of picking the best hosting solution is to know one's capabilities. Includes one flowchart, one sidebar, and one screen display. (KMH)

Descriptors: Electronic Commerce; Advertising; Internet Service Providers; Web Page Authoring; Internet ; Catalog; Inventory

17/5/22 (Item 4 from file: 233)

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00537690 99IE06-107

Detailed database can be key to e-commerce success -- Sites invest in ways to describe products minutely

Andrews, Whit

Internet World , June 14, 1999 , v5 n22 p9, 11, 2 Page(s)

ISSN: 1081-3071

Company Name: BuyerZone; Mobilia; Shoe.net

URL: <http://www.buyerzone.com> <http://www.mobilia.com> <http://www.shoe.net>

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Focuses on retailing Web sites with detailed product databases that allow customers to describe the goods they want. Explains how Web sites like Shoe.net, BuyerZone, and Mobilia provide detailed product databases. Says that the approach makes a Web site, be it an affiliate of a Web store or a distribution partner, a Web store itself. Reports that Mobilia's complex database of 18,000 model cars is a result of a three-year research on the inventory and production lists of model car makers. Notes that BuyerZone's database offers 2,000 purchasing categories that incorporate seven years worth of product research. Points out that the most important advantage for Web sites is that the databases could be the only asset they own that cannot be copied by their competitors. (XG8)

Descriptors: Web Sites; Database; Electronic Commerce; Retailing; Electronic Shopping; Online Information; Internet

Identifiers: BuyerZone; Mobilia; Shoe.net

17/5/23 (Item 5 from file: 233)

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00528004 99EA03-004

Harness the power of Visual Basic 6,0 in your e-business efforts -- Use VB 6.0's new IIS application technology to write a shopping basket interface

Jerke, Noel E

e-Business Advisor , March 1, 1999 , v17 n3 p50-53, 4 Page(s)

ISSN: 1098-8912

Product Name: Microsoft Visual Basic 6.0

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Presents a tutorial on how to use Microsoft Visual Basic 6.0's new **Internet** Information Server (IIS) to build a virtual shopping basket for a corporation's Web page. Says that with an ODBC-based connection to any database, whether it is NT-based, one can put his or her product and data on the Web using traditional Visual Basic programming. Says that the key to building an e-commerce presence for online products is having a solid **database** of products, **inventory tracking**, and fulfillment. Explains how to design page templates to import into the actual application and how to write the actual code for the task, including detailed program listings. Notes that Visual Basic 5.0 did not have extensive Web interfaces for building true client-server applications, but with Visual Basic 6.0 and its IIS applications, one has the true power of Visual Basic behind his or her Web application. Includes five screen displays and three program listings. (DRF)

Descriptors: Electronic Commerce; World Wide Web; Programming Aids; Application Development; Business

Identifiers: Microsoft Visual Basic 6.0

17/5/24 (Item 6 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00510776 98IB10-004

The key to car-buying success -- A massive inventory, timely content, and incredible integration with third-party resources make the AutoConnect site a must-have tool...

Shotland, Nicole
Internet Business , October 1, 1998 , v3 n10 p74-79, 5 Page(s)
ISSN: 1521-2408
Company Name: ADP Dealer Services; Manheim Auctions; Organic Online
URL: http://www.organic.com
Product Name: AutoConnect
Languages: English
Document Type: Articles, News & Columns
Geographic Location: United States

Reports on the first phase of the makeover of the AutoConnect Web site, a site where used cars are sold. Reports AutoConnect's parent companies are ADP Dealer Services of Roseland, NJ, and Manheim Auctions of Atlanta, GA. Says that the Web site designer is Organic Online , with 230 employees located in bicoastal offices. Adds that it guides its clients through every aspect of creating a Web business. Notes that the AutoConnect site includes: a comprehensive decision guide; a way to **locate cars** at nearby dealers; a comprehensive **database** of **car** reviews and articles; and financial and insurance information. Says that phase one was completed earlier this year and phase two and three extends plans for improvement to the middle of next year. Adds that, by then, AutoConnect will be more integrated with its third-party vendors in terms of how information is passed between them. Includes eight screen displays, one photo, and two sidebars. (bjp)

Descriptors: Automobile; Web Sites; **Electronic Commerce**; Consumer Information; Corporate Strategy

Identifiers: AutoConnect; ADP Dealer Services; Manheim Auctions; Organic Online

17/5/25 (Item 7 from file: 233)

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00450840 97PJ02-025

The rise of the Extranet -- Linking business partners via Internet technology

Anderson, Heidi
PC Today , February 1, 1997 , v11 n2 p100-102, 3 Page(s)
ISSN: 1040-6484
Languages: English
Document Type: Articles, News & Columns
Geographic Location: United States

Describes the development of an extranet and outlines the ways in which the extranet serves to link business partners via **Internet** technology by tying together several corporate intranets. Adds that extranets may be used for such tasks as allowing **inventory database** searches or to transmit **order** status information. Outlines some of the advantages of using an extranet instead of a proprietary network to link companies: ubiquity of access, open standards, and a reduction in time and money expended. Details several problems associated with use of a business extranet, including: system vulnerability, insufficient support, slow links, and factors of human nature. Overviews the types of hardware and software needed to establish extranets. Discusses implementations of extranets by several U.S. businesses. Contains one screen display. (HHW)

Descriptors: Networks; Business

17/5/26 (Item 8 from file: 233)

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00441694 96PK11-004

Net server enables flexible E-commerce

Sullivan, Eamonn

PC WEEK , November 4, 1996 , v13 n44 p1, 140, 2 Page(s)

ISSN: 0740-1604

Company Name: Microsoft

Product Name: Merchant Server 1.0

Languages: English

Document Type: Software Review

Grade (of Product Reviewed): B

Geographic Location: United States

Presents a favorable review of Merchant Server 1.0 (\$18,490), an **Internet** server for commercial services from Microsoft Corp. of Redmond, WA (800). Runs on up to 64 computers. Says this product is comparatively well-priced, is easy to use and install, and includes ActiveX and Netscape plug-ins for managing credit-card information. Adds that it can be configured around existing **inventory** and **order databases**. Notes however that customization, while possible, is complex. Concludes that "for a first release product, it has unusual depth." Includes one screen display. (phi)

Descriptors: Server; Software Review; **Internet**

Identifiers: Merchant Server 1.0; Microsoft

17/5/27 (Item 9 from file: 233)

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00211298 90IT02-009

BT Link, electronic ordering from Baker & Taylor

Information Today , February 1, 1990 , v7 n2 p13, 1 Pages

ISSN: 8755-6286

Languages: English

Document Type: Product Announcement

Geographic Location: United States

Reports that Baker & Taylor has released BT Link, a search and purchase system consisting of Module I: Ordering (free), an **electronic** ordering software program; Module II: Database on CD-ROM (\$695), a monthly CD-ROM with 65,000 title updates; and Module III: Inventory (\$300), a weekly floppy disk update for immediate verification of stock and order status. Adds that more modules are planned for future release. Includes one photo. (jtb)

Descriptors: **Purchasing** ; CD-ROM; **Inventory** ; Retailing; **Database**

Identifiers: BT Link Module I: Ordering; BT Link Module II: Database on CD-ROM; BT Link Module III: Inventory; Baker & Taylor

17/5/28 (Item 10 from file: 233)

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00120861 86PW04-014

Scenes from an on - line sales campaign

Getts, Judy

PC World , Apr 1986 , v4 n4 p182-189, 7 Pages

ISSN: 0737-8939

Languages: English

Document Type: Article

Geographic Location: United States

Examines how the sales department at Lone Wolf Scientific uses the Crosstalk XVI and MCI Mail to process orders, access the company data base, track inventory, and manage mail lists. Contains two illustrations.

Descriptors: TELECOMMUNICATIONS; ELECTRONIC MAIL; SALES
Identifiers: Crosstalk XVI; MCI Mail; Microstuf; MCI Telecommunications; Lone Wolf Scientific

17/5/29 (Item 1 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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09367320

Mercedes verkauft online

GERMANY: MERCEDES PURCHASE VIA THE INTERNET
Financial Times Deutschland (UAH) 19 Sep 2000 p.9
Language: GERMAN

With immediate effect, DaimlerChrysler compiles the around 8,000 exhibition cars of the Mercedes-Benz dealerships all over Germany in a central database. Thus, these cars can be purchased also online. *

COMPANY: MERCEDES-BENZ; DAIMLERCHRYSLER

PRODUCT: Cars (3711CA); Motor Vehicles & Parts (3710); Database Vendors (7375);

EVENT: General Management Services (26); Product Design & Development (33); Marketing Procedures (24);

COUNTRY: Germany (4GER); United States (1USA);

17/5/30 (Item 2 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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06565475

FileMaker Pro 4.0

WORLD: NEW CLARIS FILEMAKER PRO 4.0 LAUNCHED
Channel Asia (AHT) Dec 1997 P.20
Language: ENGLISH

The new Claris FileMaker Pro 4.0 software has been launched by Claris Corp globally. The software equips users with Web publishing tools and promotes the conversion of Excel spreadsheets into databases. The FileMaker Pro 4.0 software provides the following relational database features: - product inventory and sale tracker - estimate and invoice tracker - electronic product catalogue - expense report tracker - employee tracker - contact tracker - project tracker

COMPANY: CLARIS

PRODUCT: Computer Software (7372); Database Management Software (7372DB);

EVENT: Product Design & Development (33);

COUNTRY: General Worldwide (0W);

17/5/31 (Item 3 from file: 583)

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06161983

System is alternative to cash register

JAPAN: POS SYSTEMS TO REPLACE CASH REGISTERS?

The Nikkei Weekly (NW) 29 May 1995 P.13

Language: ENGLISH

In Japan, retailers purchased some 100,000 units of open point-of-sale (POS) systems that work with personal computers yearly. By using software applications such as Microsoft Windows 3.1, retailers can rely on POS systems to perform various functions such as computerised invoicing, customer **databases**, **inventory tracking** and sales analysis. Due to its flexibility, this system is a good alternative to cash registers. Presently, computer makers such as TEC Corp, NEC Corp and Fujitsu Ltd are eyeing small and midsize companies to boost demand since its decline after the end of the "bubble economy". Here is a brief outline of the various systems highlighted in the article: 1. TEC'S Shopwork 496 ST-5500 permits retailers to design their own programs. It has an uninterruptible power-supply unit to protect data from power failure. The lowest-priced Shopwork is selling at Y 774,500. 2. NEC's TwinPOS 550 which sells for Y 850,000 is based on its popular PC98-series. 3. Fujitsu has introduced 3 new models to its TeamPOS line. One of its plus points is its easy-to-use touch panel.

COMPANY: MICROSOFT; FUJITSU; NEC; TEC

PRODUCT: **Electronic** Point of Sale Systems (3573EP); Electronic Banking

Svcs (6005); Retail Trade (5200);

EVENT: Market & Industry News (60);

COUNTRY: Japan (9JPN);

17/5/32 (Item 4 from file: 583)

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06072068

Datenbank fuer die Autozulieferung

AUSTRIA: MINISTRY SET UP AUTOMOTIVE DATABASE

Der Standard (XGO) 05/06 Nov 1994 p.28

Language: GERMAN

Austria's economics ministry is setting up a **database**, Autobilanz, on the **automotive** industry in **order** to assist Austrian suppliers of the automotive and **electronics** industries. The initiators of the project are the industry federation Industriellenvereinigung and the federation of automotive industry export suppliers, AOEM.*

COMPANY: AUTOBILANZ

PRODUCT: Motor Vehicles & Parts (3710); Databases (7375DA);

EVENT: Product Design & Development (33);

COUNTRY: Austria (5AUT);

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